# INDIANA GIS INITIATIVE

**2002 Quarterly
Meeting Schedule**

**May 16, 2002
9:30—noon
INGISI Open Meeting**

**1-4 pm IGIC Business Meeting
and I-Team Meeting**

**Both to be held at the USDA
Natural Resources Conserva-
tion Service, Indianapolis Of-
fice**

**July 19, 2002
9:30—noon INGISI
Location TBA**

**October 18, 2002
9:30—noon INGISI
Location TBA**

## OPEN PUBLIC MEETING ANNOUNCEMENT

You're invited to attend the next Indiana GIS Initiative meeting from 9:30am to noon on **Thursday, May 16, 2002** at the USDA Natural Resources Conservation Service conference room located at 6013 Lakeside Blvd., Indianapolis, IN (465W and 71st St exit, head east on 71st St to Corporate Dr., turn south approximately 3rd drive on right). A pre-meeting ice-breaker will start at 9:00 am.

### AGENDA

1. Introductions
2. Indiana Geographic Information Council Report
3. Standards and Recommendations Committee– latest approved: Projections/ Coord. Systems, Datum
4. Data Sharing Committee–I-Team Framework Local Data Investigation
5. Conference Committee– 2003 GIS Conference planning
6. Education Committee–annual plan and call for participation
7. "Being Successful with Mobile Applications" Charlene Avey, Indianapolis Water Company –Project Profile (see page 2)
8. "National Hydrography Dataset" Charley Hickman, USGS Indiana Liaison –Project Profile (see page 2)
9. Additional comments / open floor.

## 2002 IGIC GIS AWARDS

### HUNTINGTON COUNTY
### TOWN OF CUMBERLAND
### INDPLS METROPOLITAN PLANNING ORGANIZATION

**HUNTINGTON COUNTY**
Huntington County, Indiana experienced problems with dissemination of public land records throughout the county. The solution was gained through GIS. The County implemented the Huntington County Electronic CourtHouse Online (ECHO) system. The ECHO system has updated County maps, eliminated duplicated work efforts, and increased communication and cooperation throughout the County.

Under the direction of the Huntington County Board of Commissioners, a task force was formed to study if GIS technology could solve the problems with dissemination of public land records in the county.

The President of the County Commissioners, and the President and a member of the County Council, were instrumental in providing the leadership and perseverance necessary to generate interest in the process, continue momentum through the study phase, and the conviction to

# PROJECT PROFILES BEING DEMONSTRATED AT NEXT INGISI MEETING

## Being Successful with Mobile Applications

Charline Avey (Mgr, Research and Devel)
US Filter, Contract Manager for Indianapolis
Water Company (IWC)

One of the nation's largest water utilities has fully implemented customized Palm Computing applications using off-the-shelf software and hardware at minimal cost. Serving over 260,000 customers in central Indiana, IWC daily uses Palm devices for hydrant, valve testing and repair and field service customer work orders. Field personnel with minimal computer experience have gone into 100% production within hours of training with simple, effective Palm solutions. Over the past year, field data accuracy has im-

proved, obsolete equipment has been replaced and redundant paperwork has been eliminated.

### The National Hydrography Dataset

Charles Hickman, Indiana Liaison
US Geological Survey

The U.S. Geological Survey, Environmental Protection Agency, Forest Service, Indiana Department of Natural Resources, and others are developing the National Hydrography Dataset << http://nhd.usgs.gov/ >>. NHD combines the best of the EPA RF3 Reach data and USGS DLG hydrography data. It contains comprehensive information about surface water features such as lakes, streams, and

# INDIANA GIS AND HOMELAND SECURITY

*Refer to http://www.IN.gov/c-tasc/ for more information about Indiana's Counter-Terrorism and Security Council*

At the October, 2001, Indiana Geographic Information Council (IGIC) meeting a Homeland Security Workgroup was formed to review issues, plan for, and offer assistance to Homeland Security efforts. Since that time the IGIC Workgroup has been working with the Indiana Counter-Terrorism and Security Council (C-TASC) to define priorities and devise a strategy for GIS support.

The power of GIS proves to be its ability to bring disparate information, data, people and resources together to enable comprehensive preparedness, response, recovery, and mitigation for disaster and emergency management.

Our first activities include a survey of local government to support GIS planning and anti-terrorism domestic preparedness. This activity will provide a complete inventory of existing framework data in Indiana, and is spurred by IGIC's I-Team planning for a statewide Geographic Information (GI) Infrastructure. Members of the IGIC Data Sharing Committee are contacting local government officials across the state to identify the status of their GIS and framework data. This information will be provided to C-TASC and appropriate federal agencies. For reporting consistency, the format of the survey is the

same as was conducted by IGIC in 2001 (available on-line at www.in.gov/ingisi). Some of the activities being discussed are based on lessons learned from the September 11th terrorist attacks, including the following:

- Create special GIS technical teams to support emergency operations based on Incident Command System (ICS) model
- Development of a statewide GIS internet mapping portal and clearinghouse that can be used for communications, mapping, planning and analysis

Coordination and cooperation will be key to a successful effort to provide accurate and timely information to local, state, and federal agencies, decision-makers and first-responders. We are fortunate in Indiana to have a strong foundation of coordination in place through the Indiana GIS Initiative and IGIC. It is apparent that all of our activities, individually and as a community, are inner-related as we seek to realize the IGIC/ INGISI mission, *"Coordination of Indiana GIS through dissemination of data and data products, education and outreach, adoption of standards, and building partnerships."*

If you are interested in participating on the Homeland Security Workgroupor any other IGIC Committee, volunteer opportunities exist. Contact Jill Saligoe-Simmel (jsaligoe@iupui.edu 317-920-9150) for more information.

## PROJECT PROFILES BEING DEMONSTRATED...

*(Continued from page 2)*
springs. NHD will improve integration of water data and applications, and will encourage shared maintenance and enhancement. The development of high-resolution, 1:24,000-scale,

NHD data is a part of the Indiana I-Team frame-work plan. Partners in the development of Indiana NHD include IDNR and the Hoosier National Forest.

## IGIC 2002 GIS AWARDS...



From Left to right:  John Harrold, President of the Cumberland Town Council; Jim Stout, The Schneider Corporation; Curt Schrieber, Town of Cumberland; Jay Poe, Huntington County Surveyor; Andrew Harrison, The Schneider Corporation; Jim Cadoret, Huntington County GIS Manager; Jeff Siegel, HNTB; Jill Saligoe-Simmel, IGIC.

*(Continued from page 1)*
support the development of the solution. The Commissioners and County Council displayed constant and continual commitment to the success of the project over a two-year time period.

The GIS Task Force consisted of representation from Huntington County Offices, the City of Huntington, and the Towns of Andrews, Markle, Roanoke and Warren.  Additional cooperation was gained from the Huntington Community School Corporation, County Drainage Board, County Health Board, and the Hunting County Soil and Water Conservation.

The Task Force, with the help of their GIS consultant, Schneider, ultimately developed the ECHO system.  ECHO has updated County

maps, eliminated duplicated work efforts, and greatly increased communication and cooperation among organizations throughout the County.  Additionally ECHO has made Huntington County property data accessible over the Internet.  Huntington County is one of only a few counties in the region to provide comprehensive GIS access on the Internet.

Huntington County's Web site lists information for about 26,000 parcels of property - listing owners and values. The maps include aerial photographs, street names and soil types, as well as many other layers of information.  Development is complete.  The county is currently in maintenance mode.

Perhaps the most valuable benefit of the

# EDUCATION COMMITTEE CALL FOR PARTICIPATION

Kevin Mickey of The Polis Center at IU-PUI is the new co-chair of the IGIC Education Committee. At its April meeting, the committee laid out a plan for 2002 activities, identified priorities, selected a regular meeting schedule, and defined a need for increased participation on the committee.

It was proposed that specific areas of responsibility be assigned to individual committee members who would then be supported by the other committee members as appropriate. Suggested areas of responsibility include, but are not limited to, marketing, leading educational material development, leading seminar topic development and recruitment of speak-

ers, and leading newsletter topic development and recruitment of articles. Ongoing and prospective projects include:

- *2002 GIS Seminar Series*

- *Indiana GIS 2003* CD production

- ***Getting Started With GIS Guides*** with topics such as Statewide GI Infrastructure: Background and Goals; Indiana GIS Resource Directory; Getting Started with GIS: The Needs Assessment; GIS Coordination: Case Studies of Coordinated GIS in Indiana, Qualities/Role of a GIS Coordinator, Salary Guides; Dissemination of IGIC Statewide GIS Standards; Funding Sources

**MARK YOUR CALENDARS NOW!**

**INDIANA GIS 2003 CONFERENCE**
*SECURING OUR FUTURE*

**February 27—28, 2003**
**Indianapolis Sheraton Hotel and Suites**

**Cost of the conference will be $149 pre-registration,**
**$169 after January 15th, 2003—Details to follow.**

Registration Information, Call for Abstracts, and Award Nominations
will be posted at www.in.gov/ingisi

## EDUCATION COMMITTEE...

*(Continued from page 4)*

The Education Committee will meet on the second Wednesday of each month through the remainder of 2002 from 10:00 a.m. to noon.  **Next meeting date: May 8, 2002.** Scheduled dates include 5/8, 6/12, 7/17, 8/14, 9/11, 10/9, 11/13, and 12/11.  All meetings of the Education Committee will take place at The Polis Center, 1200 Waterway Boulevard, Indianapolis, IN 46202.  If you are interested in participating, contact Kevin Mickey, kmickey@iupui.edu, 317-278-2582.

## IGIC 2002 GIS AWARDS...

*(Continued from page 3)*

task force process was the fact the various county, city, town, and federal offices were working toward a common goal to improve the way government operates in Huntington. Until the GIS process began, communication among the various offices was limited, and the sharing of data and work efforts was almost nonexistent.  In planning for and developing the ECHO system, the offices began working together and understanding what each office was responsible for.  Work efforts that were previously duplicated were combined, and sharing of information was simplified and greatly expanded.

What makes this system exemplary is the fact that Huntington County Commissioners and County Council were able to build 100% consensus and unanimously approve a decision to move forward with overwhelming public support.  By assembling a task force with broad representation of governmental entities

throughout the County, and by hiring a professional GIS consultant to provide technical information and educate the decision makers, Huntington County planned, designed, and funded the ECHO system with relative ease.  Fifty-four percent of the project was funded by state and local grants.

The process used by the county in establishing the task force, completing a cost/benefit analysis, needs assessment and pilot study, and the ultimate decision by the County Council to fund 100% of the ECHO system, can be replicated by other counties.  The cooperation gained through the process, and the advances in communication among local government entities, clearly shows that other counties experiencing similar problems and searching for a cooperative solution can use this model.  Web address: www.huntington. in.us/website/mvp_hunt/viewer.htm

### TOWN OF CUMBERLAND

Like most cities and towns, the Town of Cumberland saw the value to its citizens of an organized Web site to list elected officials, department responsibilities and staff, as well as a calendar of events.  The Town also chose to provide selected documents via the web such as a description of its mosquito control program, and detailed annexation notices for public hearings.  The web address is: *www. town.cumberland.in.us*

The development of the Town's internal Internet-based maps was advanced thinking on the Town's part.  Staff can query a property address, an owner's name, and many other valuable data items, simply by pointing to that feature on the computer.  The Town of Cumberland built a web presence to develop a series of Internet-based maps, depicting aerial photography, land ownership, land use, parcels, and utilities.  Town staff and citizens can select areas to display and print any

## EDUCATION FUND FOR THE CHILDREN OF DEBBIE AND DAVE MARTIN

Deb Martin's (GIS  Manager, City of South Bend) husband Dave was killed April 27 in a head-on collision.  Deb has been a very active member of INGISI and the Data Sharing Committee, and friend to many in Indiana's GIS community.  A special Education Fund

has been set up to assist Deb and their 5 children (ages 4—10).  If you are interested in contributing to the fund, it is managed by:

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            MFB Financial
         121 S. Church Street
         Mishawaka, IN 46544
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# IGIC INCORPORATES

On March 14, 2002 the Indiana Geographic Information Council incorporated. IGIC, Inc. is awaiting approval for 501c3 not-for-profit status. Legal services are generously being provided to IGIC by the law firm of Barnes and Thornburg, attorney Elaine Waterhouse-Wilson.

With its status as a not-for-profit corporation (pending), IGIC is enabled to pursue contracts, grants, donations, and other support to fund projects and operating expenses for our ongoing advocacy of coordinated GIS data and technology.

## IGIC 2002 GIS AWARDS...

*(Continued from page 5)*
of approximately 15 layers of information.

The real reason innovation, however, is the revolutionary way the Town has developed its capability to update the contents of the web pages. A web page is written in a specialized programming language called HyperText Markup Language (HTML). HTML code is a cryptic series of brackets and commands that instruct an Internet browser how to display a web page on the user's end. An example of HTML might look like:

 <FRAMESET marginwidth="0" marginheight="0" border="0" frameborder="0" framespacing="0" rows="120,*,50"></FRAMESET>

Typically, Web pages are updated in one of two ways. The first is that a "webmaster" (a programmer) actually makes changes to the HTML program code, and copies this (posts) to the computer that serves as the host for the web page. The second method to update involves a webmaster making edits inside a specialized computer software package which has the ability to save these edits as HTML. Then, as in the first method, the webmaster posts the new HTML to the web server.

However, Cumberland chose to design its web so that an HTML programmer is not needed to make changes. The Cumberland Web site has a password protected area, where Town staff can add new events, change contacts, add Web links, and even upload new document files.

Additionally, posting to the server is handled automatically, and all of this is completely independent of any programmer. In fact changes are made over the Internet, so that staff can make changes from any place in the world. This is done by a very sophisticated

set of Internet database tools operating behind the scenes on the web server. Each feature displayed on the Cumberland web site is the result of a query into a database that holds the contents of that feature. For example, when changes are to be made, Town staff access the database (an Internet site protected by a password), and make the modifications by filling out an easy-to-use data entry form. The results of the changes can be previewed, and when they meet the Town's satisfaction, are immediately posted to the web and available to the next person who visits the Town's website.

The project took place in 2001 and is completed. The town staff make daily updates to the web site.
To our knowledge, there is no other Indiana city or town website that was specifically designed to be modified and maintained completely without the need to hire webmasters or programmers for every little change. As noted above, this is a revolutionary concept. The Town's foresight and imaginative solution provides the citizens of Cumberland access to continuously updated events and contacts.

### INDIANAPOLIS MPO
The Indianapolis MPO is a regional planning agency funded by federal and state planning funds. In cooperation with the Indiana Department of Transportation and IndyGO, the MPO is responsible for the continuing, cooperative, and comprehensive transportation planning process. The principal responsibilities of the MPO include the development of a 20-year Long Range Transportation Plan (LRTP), a Congestion Management System (CMS), a three-year Regional Transportation Improvement Program (TIP) and related planning studies and projects deemed necessary to address transportation issues of the Indianapolis region.

Description of Project:

COUNTER MEMBERS:

COUNCIL MEMBERS:

Jay Poe,
Association of County Land Surveyors /
Huntington County Surveyors Office

TBA, Association of Indiana Counties

Greg Justis, Cinergy

Mike Machlan, City of Elkhart Public Works
& Utilities

Dave Mockert, City of Indianapolis

Tim Sutherland, Grand Cal Task Force

Larry Stout, Hamilton County - Information
System Services Department

Bob Weaver, Hoosier Heartland Inc. /
Johnson County Soil and Water Conservation District

Lisa Gehlhausen, Indiana 15 Regional
Planning Commission

Mark Bucherl, Indiana Association of Cities
and Towns

Lou Zickler, Indiana Association of Realtors / Horizon Group, Inc.

Irvin Goldblatt, Indiana Department of Environmental Management

Mike Andrews, Indiana Department of
Transportation

Michael Baise, Indiana Farm Bureau, Inc.

John Hill, Indiana Geological Survey /
Indiana University

Dan Pusey, Indiana Society of Professional

Land Surveyors / Purdue University

John Tanger, NIPSCO

Becky McKinley, Northwest Indiana GIS
Forum / Hammond Sanitary District

Roger Koelpin, State of Indiana Information Technology Oversight Commission

Karen Frederickson, The Polis Center at
IUPUI

Eric Torok, The Schneider Corporation

Phillip Worrall, Analytical Surveys Incorporated

Lindsay Swain, U.S. Geological Survey

Jane Hardisty, USDA-Natural Resources
Conservation Service

Jill Saligoe-Simmel, Watershed Research

OPEN MEMBERSHIP
IGIC COMMITTEES:

- Standards and Recommendations
- Data Sharing
- Education
- Networking
- Web Development
- Conference

Volunteer opportunities exist on all IGIC
committees.  Go to www.in.gov/ingisi to
learn more about IGIC and Committees
and how you can participate.

We're on the Web!
www.in.gov/ingisi

## indiana GIS Initiative

## IGIC 2002 GIS Awards...

In 1996-97 the Indianapolis MPO developed a regional Transportation Monitoring System (TMS) to provide a tool for completing the Indianapolis regional transportation planning program and to comply with the 1991 Intermodal Surface Transportation Efficiency Act (ISTEA). The goal of the system was to provide a comprehensive compilation of available transportation, traffic, and related data while satisfying the intent of the regulations outlined in ISTEA.

The TMS was developed as a geographic database that supports and updates the region's transportation data collection and storage systems. The TMS was also designed to make the database available to users to search, display, and analyze regional transportation information.

In the fall of 2001, HNTB's Technology Group was selected to assist the MPO in the development of a TMS Enhanced User System. The TMS Enhanced User System is a customized working environment within the ArcGIS family of products, recently released by ESRI. The Enhanced User System features custom tools, reports, user interfaces, and maps developed using ArcObjects within ArcView 8.1 that are directly oriented to the business process needs and workflows of the MPO staff.

Specifically, the TMS Enhanced User System provides tools to aid in the most critical areas of MPO work activity. This includes the programming and planning of capital transportation projects for the entire Indianapolis region, both short and long term. The application also aids in the maintenance of traffic counts, road conditions, and other critical data sets regarding Indianapolis's regional thoroughfares.

MPO Project Manager: Kevin Mayfield, Planner

***Congratulations to all the
IGIC 2002 Awardees!***